

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

E7.4-10.12.2

CR-136167

TYPE I PROGRESS REPORT

September 16, 1973 - November 15, 1973

Utilizing ERTS-1 Imagery for Tectonic Analysis Through Study of The Bighorn
Mountains Region. MMC #256
ERTS Contract #NAS5-21852

Principal Investigator - Richard A. Hoppin UN 633

During this period the analyses by the seven staff and student investigators
described in the last report are continuing.

All data products ordered in the past have now been delivered. The imagery
flown by the aircraft from Colorado State University is of excellent quality.
The I²S multispectral imagery is being examined in the I²S Addcol viewer. The
9X9 color-infrared transparencies (flight altitude 27,000 feet) are being
examined in detail by one student in his comparison of ERTS linears in the southern
Bighorns with the same areas on lower altitude imagery and with fracture trends
measured on the ground.

One thesis which used ERTS as an assist in a structural field mapping project
has been completed. Two others more directly involving ERTS investigation are
scheduled for completion in January, 1974 and one by May, 1974. Their results
will be included in the final report of April 28, 1974.

No further significant results are being presented at this time.

(E74-10122) UTILIZING ERTS-1 IMAGERY FOR
TECTONIC ANALYSIS THROUGH STUDY OF THE
BIGHORN MOUNTAINS REGION Progress
Report, 16 Sep. - 15 Nov. 1973 (Iowa
Univ.) 1 p HC \$3.00

N74-13049

Unclas
00122

CSCL 08E

G3/13